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Student Assessment in OBE: An Overview

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Lecture Outline:

- First Alignment: Alignment of ASSESSMENT to PURPOSE
- Second Alignment: Alignment of ASSESSENT PLAN to OUTCOMES
- Third Alignment: Alignment of ASSESSMENT METHODS to OUTCOMES
- Fourth Alignment: Alignment of INTERPRATION AND GRADING TO OUTCOMES





Slides NOTES



FIRST Alignment

Type of ASSESSMENT to PURPOSE of ASSESSMENT



Assessment <u>as</u> learning (learning as a metacognitive activity)

Focuses on the **role of the learner** as the
critical connector
between assessment
and learning.



ttp://www.etc.edu.cn/eet/Articles/metacognition/start.htm

Source: CHED IMPLEMENTATION HANDBOOK FOR OBE AND ISA CHED TFOTQA

Assessment <u>as</u> learning (learning as a metacognitive activity)

The learners actively monitor and critically assess their own learning and use the feedback from this monitoring to make adjustments, adaptations, and even major changes in what they understand and how they are learning.

Source: CHED IMPLEMENTATION HANDBOOK FOR OBE AND ISA CHED TFOTQA







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Assessment <u>for</u> learning

(Formative Assessment)

provides feedback to both the teacher and the learner of the learner's progress towards achieving the learning outcomes, which should be used by the teacher to revise and develop further instruction.



Source: CHED IMPLEMENTATION HANDBOOK FOR OBE AND ISA CHED TFOTQA

Assessment of learning

(Summative Assessment)

· occurs at the end of the course, when teachers use evidence of student learning to make judgments on the learner's achievement against competencies and standards stated as learning outcomes

Source: CHED IMPLEMENTATION HANDBOOK FOR OBE AND ISA CHED TFOTQA







Additional considerations:

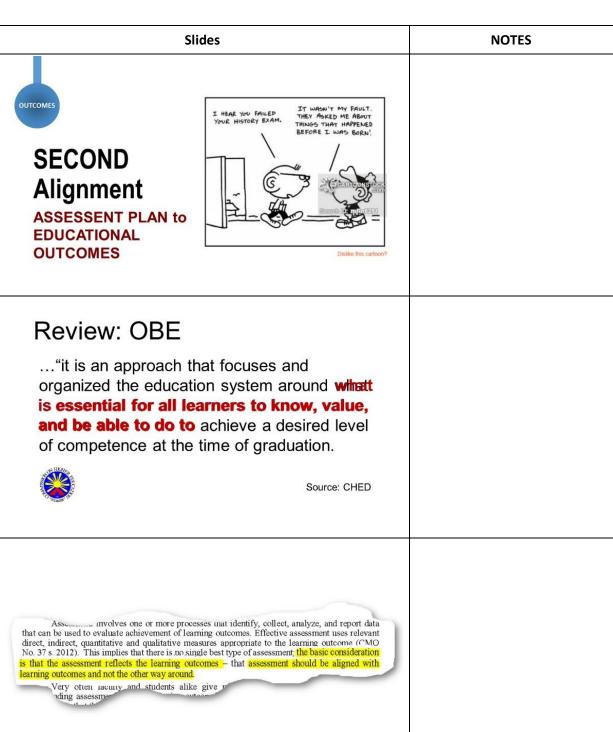
Basic Principle:

Not all learners can learn the same thing in the same way and in the same time.

But most can achieve high standards given appropriate opportunities









Source: CHED IMPLEMENTATION HANDBOOK FOR OBE AND ISA CHED TFOTQA



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Aligning assessments with outcomes...

ensure VALIDITY.

(Ability to measure predetermined OUTCOMES)



VALIDITY

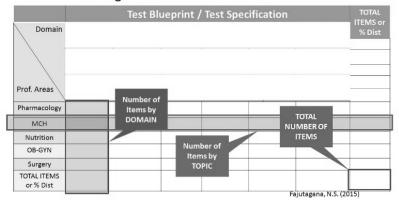


Refers to the appropriateness and meaningfulness of the inferences we make from assessment results for some intended use.

- In very general sense, any measuring device is valid if it does what it is intended to do.
- Moreover, just because an indicator is quite reliable, this does not mean that it is also relatively valid.
- TAKE NOTE: According to Cronbach (1971), "One validates, not a test, but an interpretation of data arising from a specified procedure."

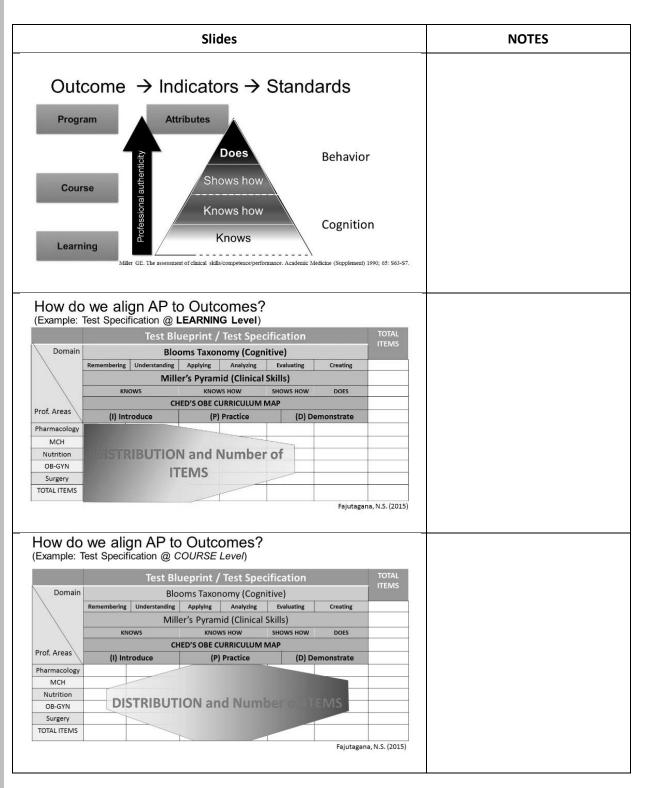
Carmines, E.G. & Zeller, R.A. (1979). Reliability and Validity Assessment. Beverly Hills: Sage.

How do we align Assessment Plan to Outcomes?







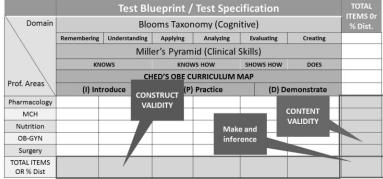






Slides **NOTES** How do we align AP to Outcomes? (Example: Test Specification @ PROGRAM Level) **Test Blueprint / Test Specification** Domain Blooms Taxonomy (Cognitive) Remembering Understanding Applying Analyzing Miller's Pyramid (Clinical Skills) KNOWS HOW CHED'S OBE CURRICULUM MAP Prof. Areas (I) Introduce (P) Practice (D) Demonstrate МСН DISTRIBUTION and NUMBER Nutrition OB-GYN of ITEMS TOTAL ITEMS Fajutagana, N.S. (2015)

BLUEPRINT AND TYPES OF VALIDITY?



Fajutagana, N.S. (2015)

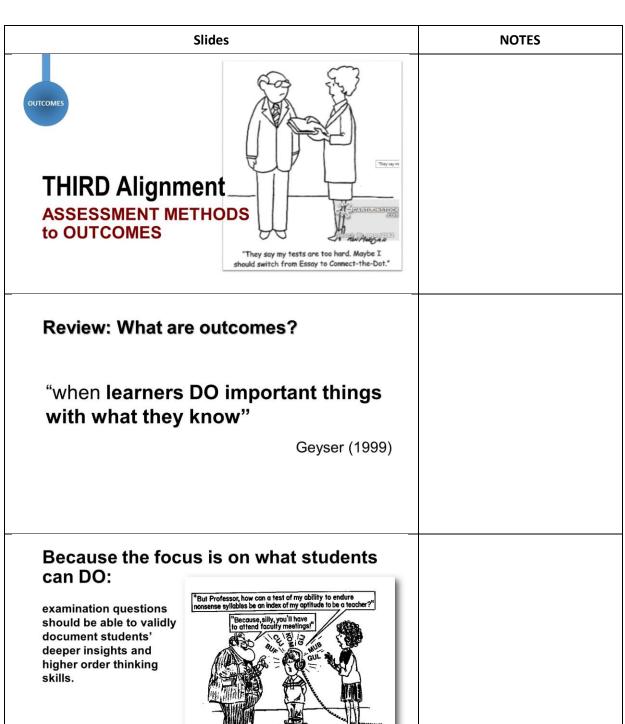
Factors that lowers the validity of test results

- Tasks that provide inadequate sample of the achievement to be achieved.
- Tasks that do not function as intended, due to improper types of tasks, lack of relevance, ambiguity, clues, bias, inappropriate difficulty, or similar factors
- · Improper arrangement of tasks and unclear directions.
- Too few tasks for the types of interpretation to be made.
- · Improper administration.
- Judgmental scoring that uses inadequate scoring guides, or objective scoring that contains computational errors.

Gronlund, E. N. (2006). Assessment of Student Achievement











Slides	NOTES
OUR OBJECTIVE: MEASURE HOTS (HIGHER ORDER THINKING SKILLS) (Synthetic Thinking) BY MALIK ALI OF COURSE YOU KNOW YOUR HINAL IS AN OPEN BOOK HALI WITH HIREE ESAN REPONSE OUSTIONS, OUT HAFT HO HOBIS TO COMPIETE HE HINAL BYAM. ANY OUSTIONS? 1. Please discuss the Afrocentric and Eurocentric paradigm and the construction of race in America. WES YOU HAVE A OURSTION? WES YOU HAVE A OURSTION?	
A Test Item has two major elements: Stimulus = TASK = domain	
Response = Options	
Assessment formats and Competency Level Stimulus format: habitual practice performance Response format: direct observation, checklists, rating scales, narratives Stimulus format: hands-on (patient) standardized scenario or simulation Response format: direct observation, checklists, rating scales Stimulus format: (patient) scenario, simulation Response format: menu, written, open, oral, computer-based Stimulus format: fact oriented Response format: menu, written, open, computer-based, oral	



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An Illustration of the difference between a question assessing recall of an isolated fact and a question assessing application of knowledge.

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Basic Science Recall Item Stem

Basic Science Application of Knowledge Item Stem:

What area is supplied with blood by the posterior inferior cerebellar artery?

A 62-year-old man develops left-sided limb ataxia, Horner's syndrome, nystagmus, and loss of appreciation of facial pain and temperature sensations. What artery is most likely to be occluded?

Source: NBME (2000)

The preferred format?

Acute intermittent porphyria is the result of a defect in the biosynthetic pathway for

A. collagen

- B. corticosteroid
- C. fatty acid
- D. glucose
- *E. heme
- F. thyroxine (T4)

An otherwise healthy 33-year-old man has mild weakness and occasional episodes of steady, severe abdominal pain with some cramping but no diarrhea. One aunt and a cousin have had similar episodes. During an episode, his abdomen is distended, and bowel sounds are decreased. Neurologic examination shows mild weakness in the upper arms. These findings suggest a defect in the biosynthetic pathway for

- A collagen
- B. corticosteroid
- C. fatty acid
 D. glucose
- *F
- *E. heme

F. thyroxine (T4)

Source: NBME (2000)

Because the focus is on outcomes:

Alternative modes of assessment, such as reflection papers, projects, portfolios, etc., can demonstrate a range of competencies that cover analytical, critical, and synthetic thinking.





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But aligning methods with outcomes is not enough!



RELIABILITY!

Reliability

Refers to the consistency of assessment results



Reliability

Refers to the consistency of assessment results







